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Swanson, J. A., ed.; *see* Carstensen, F. V.

Tarr, J. A., and J. K. Stine, eds., *Environmental History Review,* vol. 18, no. 1: *Special Issue on Technology, Pollution, and the Environment* (R) 1038; and ed., *see* Rosen, C. M.

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TIMEKEEPING: Borst, trans. Winnard, *The Ordering of Time: From the Ancient Computus to the Modern Computer* (R) 437; Davison, *The Unforgiving Minute: How Australia Learned to Tell the Time* (R) 712; Randall, *The Time Museum Catalogue of Chronometers* (R) 202

The Time Museum Catalogue of Chronometers, A. G. Randall (R) 202

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